

Title (en)

FINGERPRINT MODULE, MOBILE TERMINAL AND FINGERPRINT COLLECTION METHOD

Title (de)

FINGERABDRUCKMODUL, MOBILES ENDGERÄT UND FINGERABDRUCKERFASSUNGSVERFAHREN

Title (fr)

MODULE D'EMPREINTES DIGITALES, TERMINAL MOBILE ET PROCÉDÉ DE COLLECTE D'EMPREINTES DIGITALES

Publication

EP 3451227 A4 20190731 (EN)

Application

EP 17872401 A 20171114

Priority

- CN 201621257947 U 20161118
- CN 201611036585 A 20161118
- CN 2017110886 W 20171114

Abstract (en)

[origin: EP3451227A1] The present disclosure discloses a fingerprint identification component, an electronic device, and a fingerprint collection method. The fingerprint identification component includes a micro-slit fingerprint collection region and a plurality of fingerprint collection modules arranged in the micro-slit fingerprint collection region. Each of the fingerprint collection modules includes a resonance transmitter and a resonance sensor. The resonance transmitter transmits a resonance signal to a fingerprint texture of a user. The resonance sensor receives the resonance signal after being reflected by the fingerprint texture of the user to collect or identify the fingerprint texture of the user. The fingerprint identification component defines a micro-slit fingerprint collection region. A plurality of fingerprint collection modules are arranged in the micro-slit fingerprint collection region. The resonance transmitter is configured to transmit a resonance signal to a fingerprint texture of a user. The resonance sensor is configured to receive the resonance signal after being reflected by a fingerprint texture of the user. Such that a fingerprint image of the user is generated based on the reflected resonance signal. Thereby the fingerprint identification component can collect the fingerprint texture of the user. A space occupied by the fingerprint identification component is effectively reduces, thereby improving the user experience.

IPC 8 full level

G06K 9/00 (2006.01)

CPC (source: EP US)

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Citation (search report)

- [Y] WO 9858342 A1 19981223 - SINTEF [NO], et al
- [Y] US 2015198699 A1 20150716 - KUO NAI-KUEI [US], et al
- See references of WO 2018090908A1

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

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EP 3451227 A1 20190306; **EP 3451227 A4 20190731**; **EP 3451227 B1 20230405**; US 10817697 B2 20201027; US 2019108381 A1 20190411; WO 2018090908 A1 20180524

DOCDB simple family (application)

EP 17872401 A 20171114; CN 2017110886 W 20171114; US 201816214389 A 20181210